

FILE ID**RDHOME

N 2

RRRRRRRRR RRRRRRRRR DDDDDDDDD DDDDDDDDD HH HH 000000 000000 MM MM MM MM EEEEEEEEEE
RR RR DD DD HH HH 00 00 MMMMM MMMMM MM MM EE
RR RR DD DD HH HH 00 00 MMMMM MMMMM MM MM EE
RR RR DD DD HH HH 00 00 MM MM MM MM EE
RR RR DD DD HH HH 00 00 MM MM MM MM EE
RRRRRRRRR DD DD HHHHHHHHHHHHHHHHHHH 00 00 MM MM MM MM EEEEEEEEEE
RRRRRRRRR DD DD HHHHHHHHHHHHHHHHHHH 00 00 MM MM MM MM EEEEEEEEEE
RR RR DD DD HH HH 00 00 MM MM MM MM EE
RR RR DD DD HH HH 00 00 MM MM MM MM EE
RR RR DD DD HH HH 00 00 MM MM MM MM EE
RR RR DDDDDDDDD DDDDDDDDD HH HH 000000 000000 MM MM MM MM EEEEEEEEEE
RR RR DDDDDDDDD DDDDDDDDD HH HH 000000 000000 MM MM MM MM EEEEEEEEEE

```
1 0001 0 MODULE RDHOME (          **  
2 0002 0          LANGUAGE,(BLISS32),  
3 0003 0          IDENT = 'V04-000'  
4 0004 0          ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1  
8 0008 1 *****  
9 0009 1 *  
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29 0029 1 *****  
30 0030 1  
31 0031 1 **  
32 0032 1  
33 0033 1 FACILITY: MOUNT Utility Structure Levels 1 & 2  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1 This routine reads the home block, if any, of the volume being mounted.  
37 0037 1  
38 0038 1 ENVIRONMENT:  
39 0039 1  
40 0040 1 STARLET operating system, including privileged system services  
41 0041 1 and internal exec routines.  
42 0042 1 --  
43 0043 1  
44 0044 1  
45 0045 1  
46 0046 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 13-Oct-1977 21:29  
47 0047 1  
48 0048 1 MODIFIED BY:  
49 0049 1  
50 0050 1  
51 0051 1 V02-004 STJ0002 Steven T. Jeffreys, 29-Aug-1980  
52 0052 1 Liberal re-write to facilitate operator assisted mount.  
53 0053 1 As a result, the code indentation is screwed up.  
54 0054 1  
55 0055 1 V02-003 ACG0167 Andrew C. Goldstein, 18-Apr-1980 13:39  
56 0056 1 Previous revision history moved to MOUNT.REV  
57 0057 1 **
```

```
: 58 0058 1
: 59 0059 1
: 60 0060 1 LIBRARY 'SYSSLIBRARY:LIB:L32';
: 61 0061 1 REQUIRE 'SRC$:INIDEF.B32';
: 62 0352 1
: 63 0353 1
: 64 0354 1 FORWARD ROUTINE
: 65 0355 1     READ_HOMEBLOCK.          ; read the home block
: 66 0356 1     SET_VALID.           ; set volume valid bit
: 67 0357 1     CLEAR_VALID;        ; clear volume valid bit
```

Mo
--
LI
IN
IN
IN
IN
ST
ST
CL
DC
RP
PA
CH
CO
DI
UP
HF
VA
CV
JB
SY
SY
RM
SY

69 0358 1 GLOBAL ROUTINE READ_HOMEBLOCK (VOLUME_LABEL, FULL_SEARCH) =
70 0359 1
71 0360 1 ++
72 0361 1
73 0362 1 FUNCTIONAL DESCRIPTION:
74 0363 1
75 0364 1 This routine reads the home block, if any, of the volume being mounted. LI
76 0365 1 Various statuses are returned to be interpreted in the context of the
77 0366 1 operation; errors that are clear losers are signalled. DE
78 0367 1
79 0368 1
80 0369 1 CALLING SEQUENCE:
81 0370 1 READ_HOMEBLOCK (ARG1, ARG2)
82 0371 1
83 0372 1 INPUT PARAMETERS:
84 0373 1 ARG1: address of volume label string descriptor
85 0374 1 ARG2: 1 if search whole disk for home block
86 0375 1 0 if limited search
87 0376 1
88 0377 1 IMPLICIT INPUTS:
89 0378 1 CHANNEL: channel number assigned to device being mounted
90 0379 1
91 0380 1 OUTPUT PARAMETERS:
92 0381 1 NONE
93 0382 1
94 0383 1 IMPLICIT OUTPUTS:
95 0384 1 HOME_BLOCK: buffer contains home block if found
96 0385 1 HOMEBLOCK_LBN: LBN of home block read
97 0386 1
98 0387 1 ROUTINE VALUE:
99 0388 1 1 if valid and correct home block found
100 0389 1 SSS_NOHOMEblk if home block not found
101 0390 1 SSS_INCVOLLABEL if home block found but wrong volume name
102 0391 1 SSS_DEVOFFLINE
103 0392 1 SSS_MEDOFL
104 0393 1 SSS_FILESTRUCT
105 0394 1
106 0395 1 SIDE EFFECTS:
107 0396 1 NONE
108 0397 1
109 0398 1 --
110 0399 1
111 0400 2 BEGIN
112 0401 2
113 0402 2 MAP
114 0403 2 VOLUME_LABEL : REF VECTOR; ! volume label string descriptor
115 0404 2
116 0405 2 LOCAL
117 0406 2 STATUS, ! system service status
118 0407 2 IO_STATUS : VECTOR[2], ! I/O status block
119 0408 2 DE[TA], ! home block search delta
120 0409 2 BLOCKFACT, ! device blocking factor
121 0410 2 LBN; ! current LBN being tried
122 0411 2
123 0412 2 EXTERNAL
124 0413 2 CHANNEL, ! channel number for I/O
125 0414 2 DEVICE_CHAR : BBLOCK, ! disk device characteristics

126 0415 2 DEVCHAR_DESC : VECTOR, : device characteristics descriptor
127 0416 2 HOME_BLOCK : BBLOCK, : home block buffer
128 0417 2 HOME_BLOCK_LBN, : LBN of home block read
129 0418 2 CTL\$GL_PHB : REF BBLOCK ADDRESSING_MODE (ABSOLUTE);
130 0419 2 : pointer to process header
131 0420 2
132 0421 2 EXTERNAL ROUTINE
133 0422 2 READ_BLOCK, : read a disk block
134 0423 2 CHECK_HOMEBLK1, : verify structure level 1 home block
135 0424 2 CHECK_HOMEBLK2; : verify structure level 2 home block
136 0425 2
137 0426 2
138 0427 2
139 0428 2 : Issue a pack acknowledge so we can talk to the disk.
140 0429 2 : Inhibit error logging to avoid saturating the error log
141 0430 2 : with media/device offline errors. These errors cause
142 0431 2 : us to return and try an operator assisted mount.
143 0432 2
144 0433 2
P 0434 2 STATUS = \$QIOW (CHAN = .CHANNEL,
P 0435 2 FUNC = (IOS_PACKACK OR IOSM_INHERLOG),
0436 2 IOSB = IO_STATUS[0]);
0437 2 IF .STATUS THEN STATUS = : (IO_STATUS[0])<0,16>;
0438 2 IF NOT .STATUS
0439 2 THEN
0440 2
0441 2 : Allow ILLIOFUNC errors as devices that have
0442 2 : no PACKACK function will return this status.
0443 2
0444 2 IF .STATUS NEQ SSS_ILLIOFUNC
0445 2 THEN
0446 2 ERR_EXIT (.STATUS);
0447 2
0448 2 : Set the volume valid bit to indicate presence of a volume.
0449 2
0450 2
0451 2 KERNEL_CALL (SET_VALID);
0452 2
0453 2 : Re-read the device characteristics. (For some devices, packack causes the
0454 2 : correct characteristics to be determined and recorded in the I/O data base.)
0455 2
0456 2
0457 2 \$GETCHN (CHAN = .CHANNEL, PRIBUF = DEVCHAR_DESC);
0458 2
0459 2 : Compute the home block search delta from the volume geometry in the
0460 2 : device table. This is done according to the following rules, where volume
0461 2 : geometry is expressed in the order sectors, tracks, cylinders:
0462 2
0463 2 n x 1 x 1: 1
0464 2 1 x n x 1: 1
0465 2 1 x 1 x n: 1
0466 2
0467 2 n x m x 1: n+1
0468 2 n x 1 x m: n+1
0469 2 1 x n x m: n+1
0470 2
0471 2 s x t x c: (t+1)*s+1

183 0472 2 !
184 0473 2
185 0474 3 BLOCKFACT = (.DEVICE_CHAR[DIB\$B_SECTORS]
186 0475 3 * .DEVICE_CHAR[DIB\$B_TRACKS]
187 0476 3 * .DEVICE_CHAR[DIB\$W_CYLINDERS])
188 0477 2 / .DEVICE_CHAR[DIB\$L_MAXBLOCK];
189
190 0479 2 DELTA = 1;
191 0480 2 IF .DEVICE_CHAR[DIB\$W_CYLINDERS] GTR 1
192 0481 2 AND .DEVICE_CHAR[DIB\$B_TRACKS] GTR 1
193 0482 2 THEN DELTA = .DELTA + .DEVICE_CHAR[DIB\$B_TRACKS];
194
195 0484 2 IF .DEVICE_CHAR[DIB\$B_SECTORS] GTR 1
196 0485 3 AND (.DEVICE_CHAR[DIB\$W_CYLINDERS] GTR 1
197 0486 3 OR .DEVICE_CHAR[DIB\$B_TRACKS] GTR 1)
198 0487 2 THEN DELTA = (.DELTA + .DEVICE_CHAR[DIB\$B_SECTORS]) / .BLOCKFACT;
199
200 0489 2 IF .DELTA EQ 0
201 0490 2 OR .DELTA GTRU .DEVICE_CHAR[DIB\$L_MAXBLOCK] / 10
202 0491 2 THEN DELTA = 1;
203
204 0493 2 ! Search for the home block. If the device is being mounted foreign, we
205 0494 2 ! limit the home block search to 10 hits to save time. If the device is
206 0495 2 ! being mounted Files-11 then we try all the way just in case the home block
207 0496 2 ! is in a weird location. Note the potential protection hole: Disks with the
208 0497 2 ! home block far into the disk are not protected from being mounted foreign
209 0498 2 ! by non-privileged users. C'est la vie.
210 0499 2 !
211
212 0500 2 LBN = 1;
213
214 0501 2
215 0502 2
216 0503 3 IF (DECRU J FROM (IF .FULL_SEARCH THEN -1 ELSE 10) TO 1 DO
217 0504 4 BEGIN
218 0505 4 STATUS = READ_BLOCK (.LBN, HOME_BLOCK);
219 0506 4 IF .STATUS
220 0507 4 THEN
221 0508 5 BEGIN
222 0509 5 IF .HOME_BLOCK[HM\$B_STRUCLEV] EQ 1
223 0510 5 THEN STATUS = CHECK_HOMEBLK1 (HOME_BLOCK, .LBN, .VOLUME_LABEL)
224 0511 5 ELSE IF .HOME_BLOCK[HM\$B_STRUCLEV] EQ 2
225 0512 5 THEN STATUS = CHECK_HOMEBLK2 (HOME_BLOCK, .LBN, .VOLUME_LABEL)
226 0513 5 ELSE STATUS = 0;
227 0514 5 IF .STATUS
228 0515 5 OR .STATUS EQ SSS_INCVOLLABEL
229 0516 5 THEN EXITLOOP 0;
230 0517 5 END
231 0518 5
232 0519 4 ELSE
233 0520 5 BEGIN
234 0521 5 IF .STATUS EQ SSS_ILLBLKNUM
235 0522 5 THEN EXITLOOP -1;
236 0523 5 IF .STATUS NEQ SSS_PARITY
237 0524 5 AND .STATUS NEQ SSS_FORMAT
238 0525 5 AND .STATUS NEQ SSS_DATACHECK
239 0526 5 THEN ERR_EXIT (.STATUS);
0527 4
0528 4
0529 4

```

240 0529 4 IF NOT .FULL SEARCH
241 0530 4 AND .BBLOCK [CIL$GL PHD[PHD$Q_PRIVMSK], PRV$V_VOLPRO]
242 0531 4 THEN RETURN (SS$_N0HOMEBLK);
243 0532 4
244 0533 4 LBN = .LBN + .DELTA;
245 0534 4 END
246 0535 3 )
247 0536 2 THEN
248 0537 3 BEGIN
249 0538 3 READ_BLOCK (1, HOME_BLOCK);
250 0539 3 RETURN (SS$_N0HOMEBLK);
251 0540 2 END;
252 0541 2
253 0542 2 HOMEBLOCK_LBN = .LBN;
254 0543 2
255 0544 2 RETURN .STATUS;
256 0545 2
257 0546 1 END;

```

! end of routine READ_HOMEblk

```

.TITLE RDHOME
.IDENT \V04-000\
```

```

.EXTRN CHANNEL, DEVICE_CHAR
.EXTRN DEVCCHAR_DESC, HOME_BLOCK
.EXTRN HOMEBLOCK_LBN, CTL$GL PHD
.EXTRN READ_BLOCK, CHECK_HOMEBLK1
.EXTRN CHECK_HOMEBLK2, SYSSQIOW
.EXTRN SYSSCMKRNL, SYSSGETCHN
```

```
.PSECT SCODES,NOWRT,2
```

03FC 00000				.ENTRY READ_HOMEBLOCK, Save R2,R3,R4,R5,R6,R7,R8,- : 0358
59	00000000G	00 9E 00002	MOVAB LIB\$STOP, R9	R9
58	0000G	CF 9E 00009	MOVAB HOME_BLOCK, R8	CL
57	0000G	CF 9E 0000E	MOVAB DEVICE_CHAR+10, R7	CL
5E		08 C2 00013	SUBL2 #8, SP	CL
		7E 7C 00016	CLRQ -(SP)	CL
		7E 7C 00018	CLRQ -(SP)	CL
		7E 7C 0001A	CLRQ -(SP)	CL
		7E 7C 0001C	CLRQ -(SP)	CL
7E	0808 20	AE 9F 0001E	PUSHAB IO_STATUS	CL
	0000G	8F 3C 00021	MOVZWL #2056, -(SP)	CL
		CF DD 00026	PUSHL CHANNEL	CL
		7E D4 0002A	CLRL -(SP)	CL
00000000G	00	0C FB 0002C	CALLS #12, SYSSQIOW	CL
	53	50 D0 00033	MOVL R0, STATUS	CL
	06	53 E9 00036	BLBC STATUS, 1\$	CL
	53	6E 3C 00039	MOVZWL IO_STATUS, STATUS	CL
000000F4	0E	53 E8 0003C	BLBS STATUS, 2\$	CL
	8F	53 D1 0003F	CMPL STATUS, #244	CL
		18: 05 13 00046	BEQL 2\$	CL
		53 DD 00048	PUSHL STATUS	CL
69		01 FB 0004A	CALLS #1, LIB\$STOP	CL
		7E D4 0004D	CLRL -(SP)	CL
		28: 5E DD 0004F	PUSHL SP	CL

			0000V	CF 9F 00051	PUSHAB	SET_VALID		Sy
			03	FB 00055	CALLS	#3 @SYSSCMKRL		--
			7E	7C 0005C	CLRQ	-(SP)		CL
			0000G	CF 9F 0005E	PUSHAB	DEVCHAR_DESC		CL
			7E	D4 00062	CLRL	-(SP)		CL
			0000G	CF DD 00064	PUSHL	CHANNEL		CL
			05	FB 00068	CALLS	#5, SYSSGETCHN		CL
			50	FE A7 9A 0006F	MOVZBL	DEVICE_CHAR+8, R0		CL
			51	FF A7 9A 00073	MOVZBL	DEVICE_CHAR+9, R1		CL
52			50	51 C5 00077	MULL3	R1, R0, R2		CL
			54	67 3C 0007B	MOVZWL	DEVICE_CHAR+10, R4		CL
			52	54 C4 0007E	MULL2	R4, R2		CL
54			52	A7 C7 00081	DIVL3	DEVICE_CHAR+112, R2, BLOCKFACT		CL
			52	01 D0 00086	MOVL	#1, DELTA		CL
				55 D4 00089	CLRL	R5		CL
			01	67 B1 0008B	CMPW	DEVICE_CHAR+10, #1		CL
				0A 1B 0008E	BLEQU	3\$		CL
			01	55 D6 00090	INCL	R5		CL
			01	51 91 00092	CMPB	R1, #1		CL
			52	03 1B 00095	BLEQU	3\$		CL
			01	51 C0 00097	ADDL2	R1, DELTA		CL
			52	50 91 0009A	CMPB	R0, #1		CL
			01	3\$:	BLEQU	5\$		CL
			05	12 1B 0009D	BLBS	R5, 4\$		CL
			01	55 E8 0009F	CMPB	R1, #1		CL
			01	51 91 000A2	BLEQU	5\$		CL
			0A	1B 000A5	BLEQU	5\$		CL
			50	52 C4 000A7	MULL2	DELTA, R0		CL
			50	4\$:	ADDL2	BLOCKFACT, R0		CL
52			50	54 C0 000AA	DIVL3	BLOCKFACT, R0, DELTA		CL
			50	54 C7 000AD	TSTL	DELTA		CL
			52	D5 000B1	5\$:	BEQL		CL
			0A	13 000B3	DIVL3	#1C, DEVICE_CHAR+112, R0		CL
50	66	A7	0A	C7 000B5	CMPL	DELTA, R0		CL
		50	52	D1 000BA	BLEQU	7\$		CL
			03	1B 000BD	MOVL	#1, DELTA		CL
			52	01 D0 000BF	MOVL	#1, LBN		CL
			54	6\$:	BLBC	FULL_SEARCH, 8\$		CL
			05	01 E9 000C5	MNEGL	#1, R5		CL
			55	01 CE 000C9	BRB	9\$		CL
			03	11 000CC	MOVL	#10, R5		CL
			55	0A D0 000CE	MCOML	FULL_SEARCH, R6		CL
			56	8\$:	BRW	18\$		CL
			08	AC D2 000D1	PUSHR	#^M<R4, R8>		CL
			08	9\$:	CALLS	#2, READ_BLOCK		CL
		0086	0110	31 000D5	MOVL	R0, STATUS		CL
		0000G	CF	8F BB 000D8	BLBC	STATUS, 15\$		CL
			53	02 FB 000DC	CMPB	HOME_BLOCK+13, #1		CL
			38	50 D0 000E1	BNEQ	11\$		CL
			01	53 E9 000E4	PUSHL	VOLUME_LABEL		CL
			0D	A8 91 000E7	BRB	R8		CL
			04	OE 12 000EB	PUSHL	12\$		CL
			04	AC DD 000ED	PUSHL	13\$		CL
				54 DD 000F0	PUSHL	VOLUME_LABEL		CL
				58 DD 000F2	PUSHL	LBN		CL
		0000G	CF	03 FB 000F4	CALLS	#3, CHECK_HOMEBLK1		CL
			02	12 11 000F9	BRB	12\$		CL
			0D	A8 91 000FB	CMPB	HOME_BLOCK+13, #2		CL
			04	11 12 000FF	BNEQ	13\$		CL
			04	AC DD 00101	PUSHL	VOLUME_LABEL		CL
				54 DD 00104	PUSHL	LBN		CL

; Routine Size: 381 bytes, Routine Base: SCODE\$ + 0000

259 0547 1 GLOBAL ROUTINE SET_VALID =
260 0548 1
261 0549 1 !++
262 0550 1
263 0551 1 ! FUNCTIONAL DESCRIPTION:
264 0552 1
265 0553 1 This routine sets the volume valid bit in the UCB, causing
266 0554 1 PACKACK to be reissued in case of a power failure or volume
267 0555 1 status transition.
268 0556 1
269 0557 1
270 0558 1 ! CALLING SEQUENCE:
271 0559 1 SET_VALID ()
272 0560 1
273 0561 1 ! INPUT PARAMETERS:
274 0562 1 NONE
275 0563 1
276 0564 1 ! IMPLICIT INPUTS:
277 0565 1 CHANNEL: channel number assigned to device
278 0566 1
279 0567 1 ! OUTPUT PARAMETERS:
280 0568 1 NONE
281 0569 1
282 0570 1 ! IMPLICIT OUTPUTS:
283 0571 1 NONE
284 0572 1
285 0573 1 ! ROUTINE VALUE:
286 0574 1 1
287 0575 1
288 0576 1 ! SIDE EFFECTS:
289 0577 1 valid bit set in UCB
290 0578 1
291 0579 1 !--
292 0580 1
293 0581 2 BEGIN
294 0582 2
295 0583 2 LOCAL
296 0584 2 UCB : REF BBLOCK; ! pointer to UCB
297 0585 2
298 0586 2 EXTERNAL
299 0587 2 CHANNEL; ! channel assigned to device
300 0588 2
301 0589 2 EXTERNAL ROUTINE
302 0590 2 GET_CHANNELUCB; ! get UCB of channel
303 0591 2
304 0592 2
305 0593 2 ! Get the UCB address from the channel and set the bit.
306 0594 2
307 0595 2
308 0596 2 UCB = GET_CHANNELUCB (.CHANNEL);
309 0597 2 UCB[UCB\$V_VALID] = 1;
310 0598 2
311 0599 2 RETURN 1;
312 0600 2
313 0601 1 END; ! end of routine SET_VALID

0000G	CF	0000G	0000 00000
65	A0	01	FB 00002
50		08	88 00006
		01	00 0000F
		04	00012

```
.EXTRN GET_CHANNELUCB
.ENTRY SET VALID, Save nothing : 0547
PUSHL CHANNEL : 0596
CALLS #1, GET CHANNELUCB
BISB2 #8, 1017UCB) : 0597
MOVL #1, R0 : 0599
RET : 0601
```

: Routine Size: 19 bytes. Routine Base: \$CODE\$ + 017D

```

315 0602 1 GLOBAL ROUTINE CLEAR_VALID =
316 0603 1
317 0604 1 !++
318 0605 1
319 0606 1 FUNCTIONAL DESCRIPTION:
320 0607 1
321 0608 1 This routine clears the volume valid bit in the UCB.
322 0609 1
323 0610 1
324 0611 1 CALLING SEQUENCE:
325 0612 1 CLEAR_VALID ()
326 0613 1
327 0614 1 INPUT PARAMETERS:
328 0615 1 NONE
329 0616 1
330 0617 1 IMPLICIT INPUTS:
331 0618 1 CHANNEL: channel number assigned to device
332 0619 1
333 0620 1 OUTPUT PARAMETERS:
334 0621 1 NONE
335 0622 1
336 0623 1 IMPLICIT OUTPUTS:
337 0624 1 NONE
338 0625 1
339 0626 1 ROUTINE VALUE:
340 0627 1 1
341 0628 1
342 0629 1 SIDE EFFECTS:
343 0630 1 valid bit clear in UCB
344 0631 1
345 0632 1 !--
346 0633 1
347 0634 2 BEGIN
348 0635 2
349 0636 2 LOCAL
350 0637 2 UCB : REF BBLOCK; ! pointer to UCB
351 0638 2
352 0639 2 EXTERNAL
353 0640 2 CHANNEL; ! channel assigned to device
354 0641 2
355 0642 2 EXTERNAL ROUTINE
356 0643 2 GET_CHANNELUCB; ! get UCB of channel
357 0644 2
358 0645 2
359 0646 2 ! Get the UCB address from the channel and clear the bit.
360 0647 2
361 0648 2
362 0649 2 UCB = GET_CHANNELUCB (.CHANNEL);
363 0650 2 UCB[UCB$V_VALID] = 0;
364 0651 2
365 0652 2 RETURN 1;
366 0653 2
367 0654 1 END; ! end of routine CLEAR_VALID

```

0000G	65	0000G	0000	00000	.ENTRY	CLEAR VALID, Save nothing	:	0602
	A0		CF	DD 00002	PUSHL	CHANNEL		0649
	50		01	FB 00006	CALLS	#1, GET CHANNELUCB		0650
			08	8A 0000B	BICB2	#8, 101TUCB)		0652
			01	DO 0000F	MOVL	#1, R0		0654
				04 00012	RET			

; Routine Size: 19 bytes, Routine Base: \$CODES + 0190

368 0655 1
369 0656 1 END
370 0657 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Bytes	Attributes
419	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

----- Symbols -----			Pages	Processing
Total	Loaded	Percent	Mapped	Time
18619	24	0	1000	00:01.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RDHOME/OBJ=OBJ\$:RDHOME MSRC\$:RDHOME/UPDATE=(ENH\$:RDHOME)

```
Size: 419 code + 0 data bytes
Run Time: 00:13.1
Elapsed Time: 00:39.9
Lines/CPU Min: 3004
Lexemes/CPU-Min: 25417
Memory Used: 147 pages
Compilation Complete
```

0188 AH-BT13A-SE
VAX/VMS V4.0

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MAP

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SOL

INSCREATE
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INSTAL
S

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MAP

INSCMO
CLD

INSPREFIX
REQ

INPSMBCLD
CLD

INPSMB
LIS

INSOLDEMO
CLD

INSCMO
LIS

INITIO
LIS

ROHOME
LIS

INPSMB
LIS

INPSMBCLD
LIS